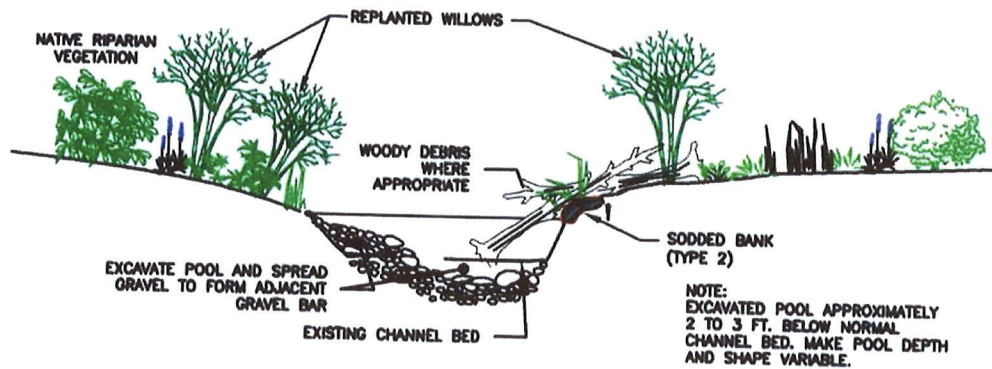
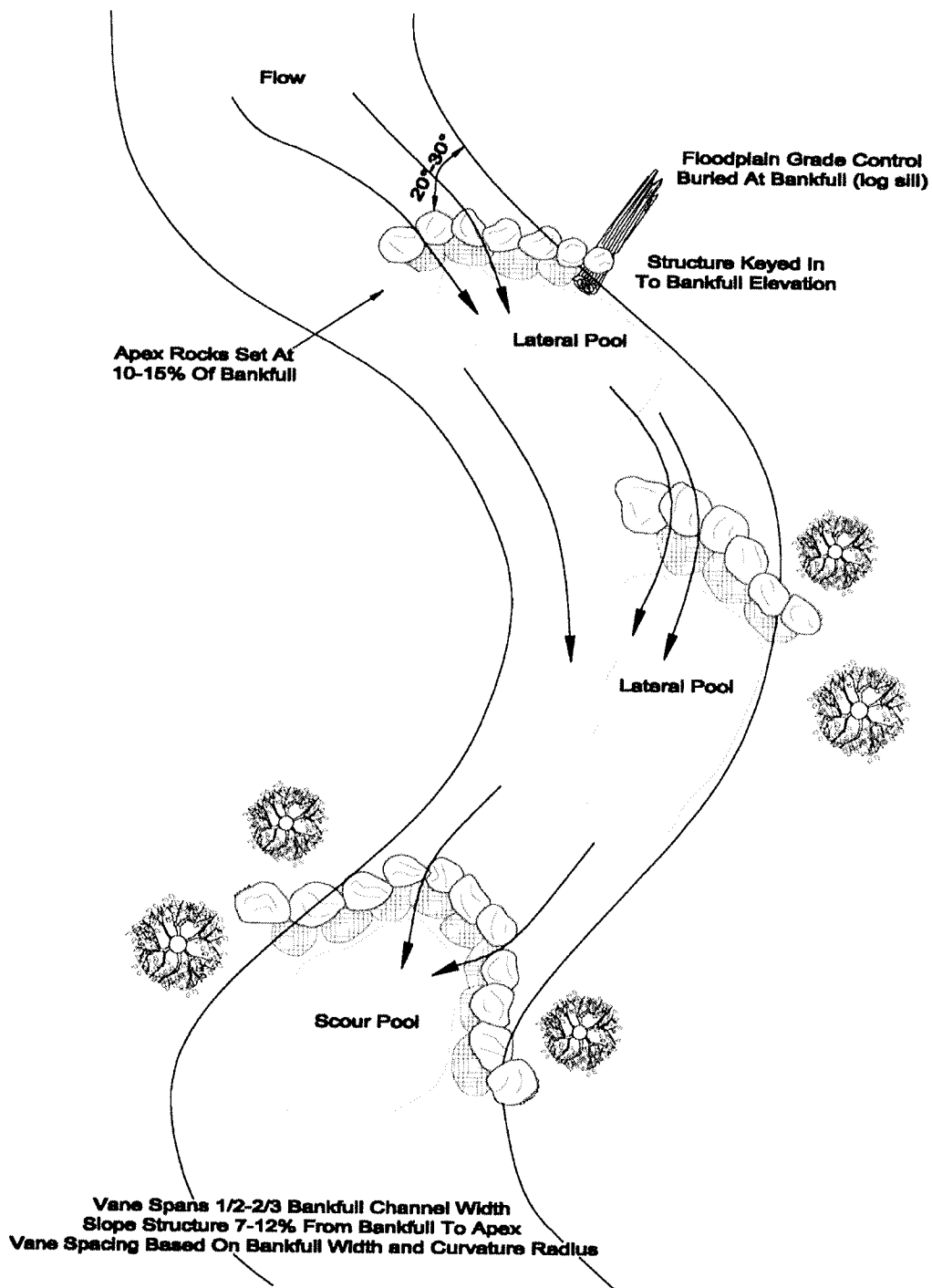


(B) CONCEPTUAL PROFILE VIEW
POOL

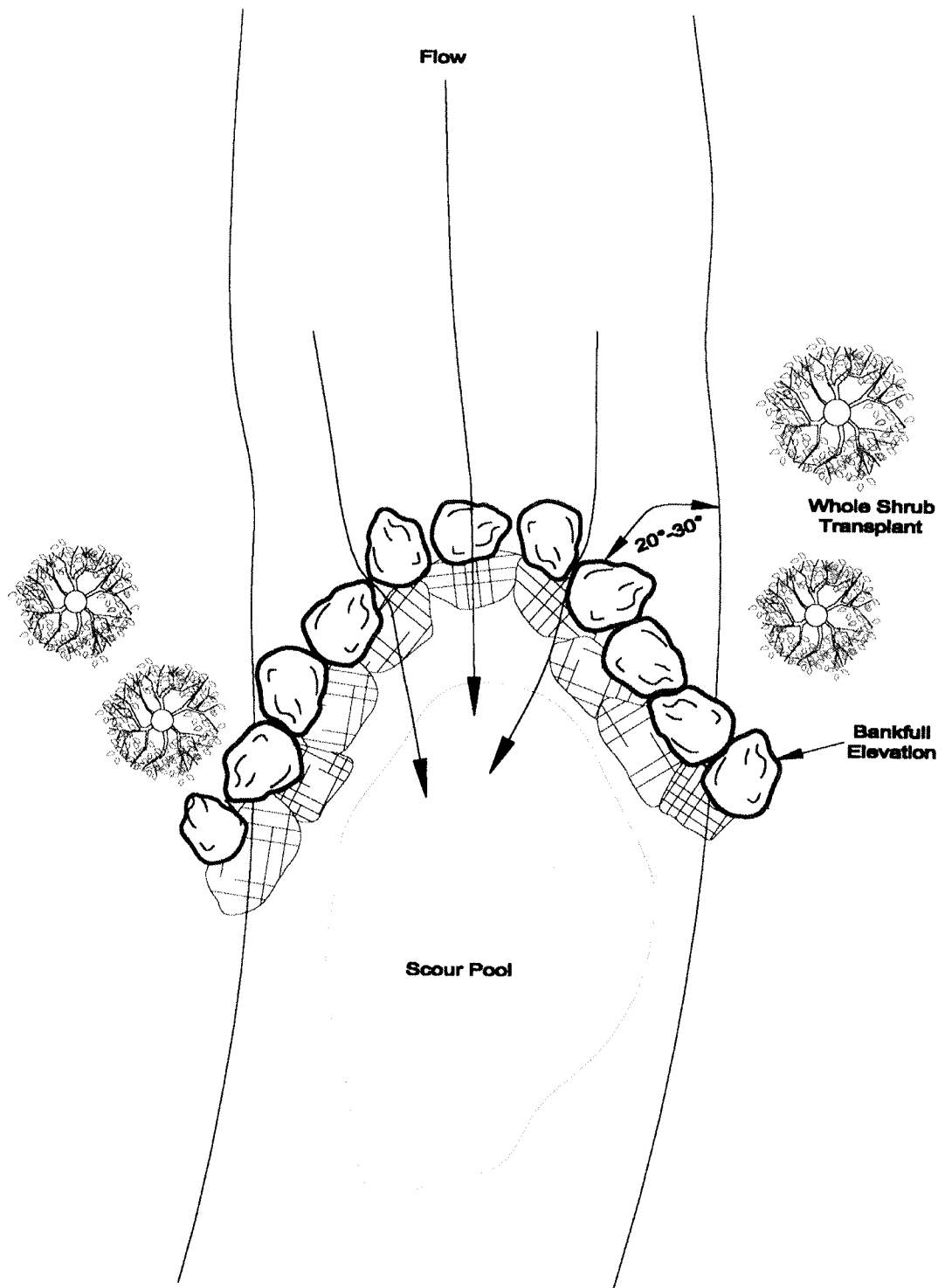


(A) CONCEPTUAL SECTION VIEW
POOL

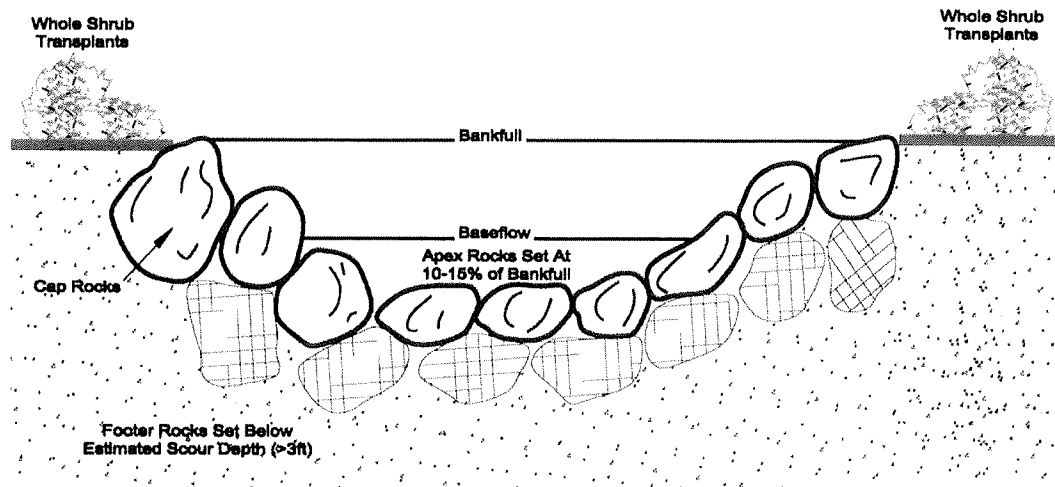
Typical cross-section drawings are shown here for Scour-Lateral-Meander pool restoration in Cottonwood Creek. These drawings provide a format from which we can construct a variety of pool habitats.



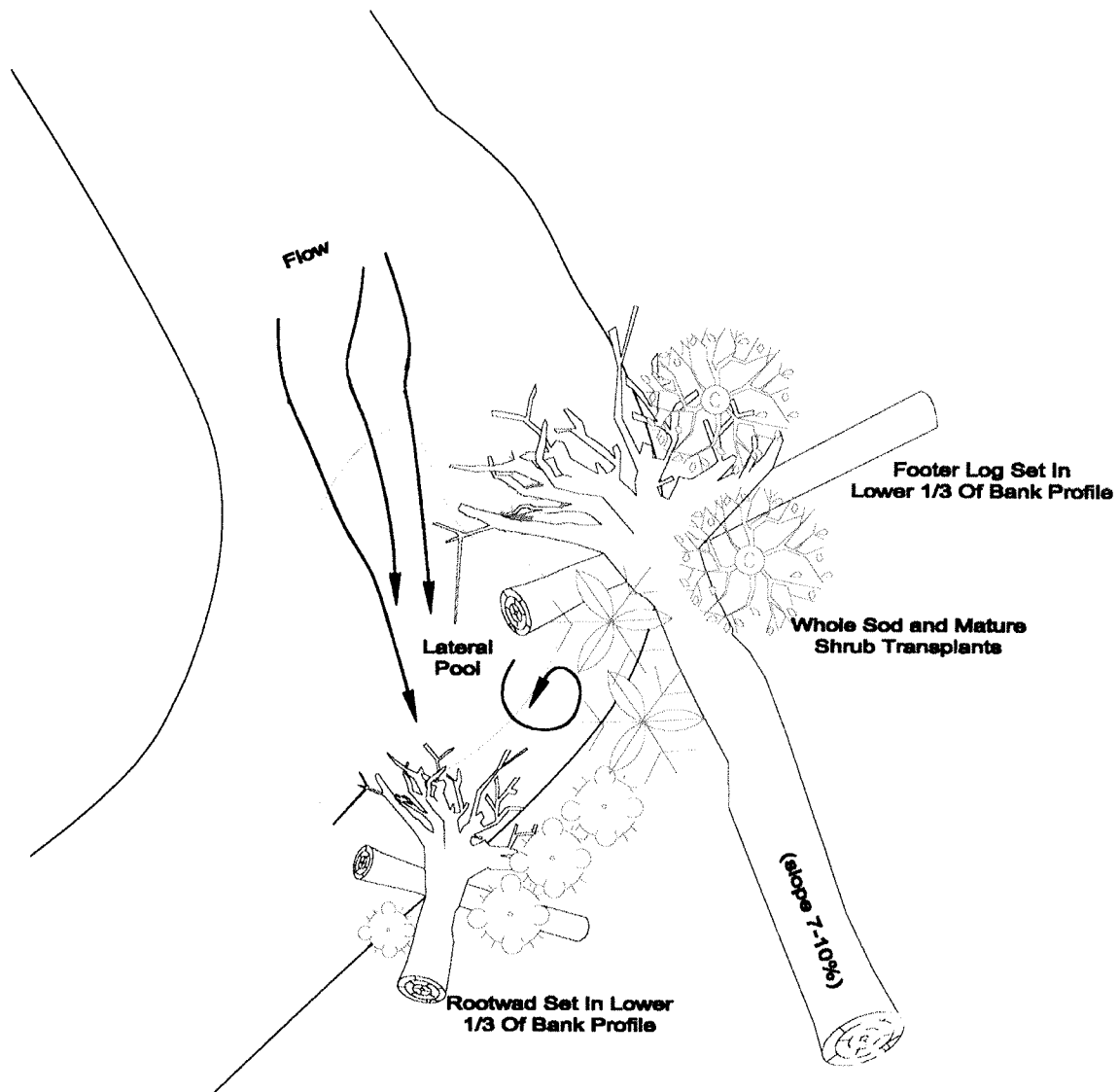
This plan view diagram is of a series of vanes and a V-weir structure that will be used to protect streambanks on Cottonwood Creek, as well as provide fisheries habitat. These sequential pools will provide spawning habitat and juvenile fish cover. Small woody debris will be placed along the edge of the pools for additional habitat.



Setting the rock V-weirs must be done at the appropriate angles to insure adequate scour. This diagram indicates the pattern for the V-weirs. The materials for these structures will be sized so that their diameter is at least 2 times the bankfull depth across their b-axis.

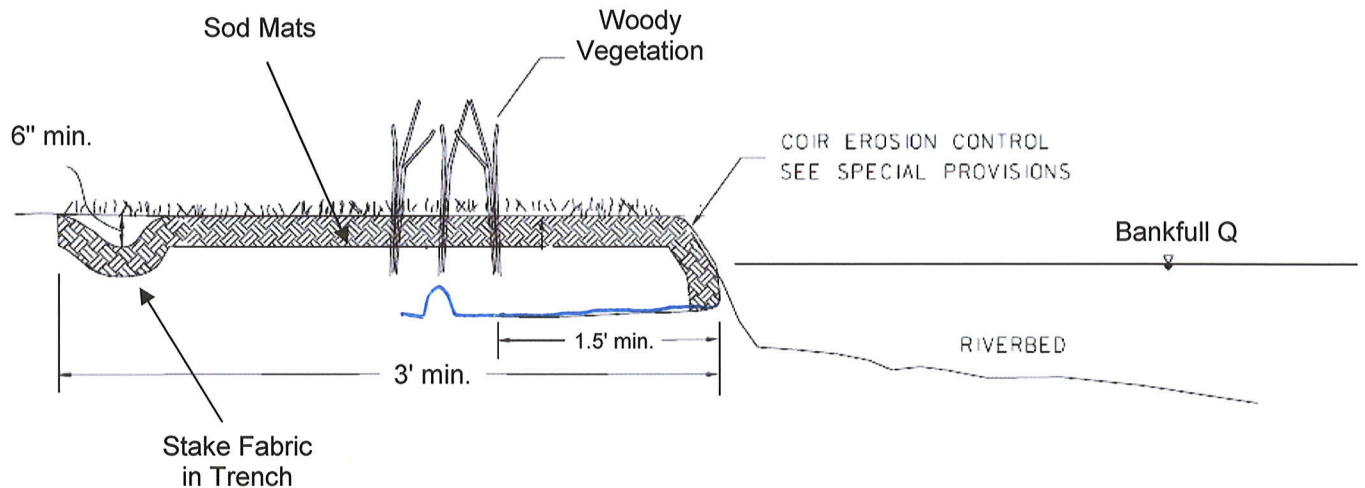


The rock V-weirs must be set at the appropriate elevation to insure adequate scour and sediment transport. This diagram indicates the depths for the V-weirs. The V-weir materials will be at least 2 times the bankfull depth across the rock's b-axis.



**Effective Bank Protection = 2-2.5 x Vane Length
(per structure)**

Engineered log jams contain numerous smaller stems placed in between a larger base structure. Pictured above is the base structure and the numerous smaller stems will be added to increase complexity and near bank roughness.



COIR EROSION CONTROL

1. Sub-excavate banks
2. Lay lower fabric a minimum 1.5' into bank
3. Backfill with native material and sod mats
4. Wrap fabric over bank and sod mats
5. Extend fabric minimum 3.0' from bank's edge
6. Stake fabric in trench to secure and bury
7. Install woody vegetation to specs

The inset lower banks (inset floodplains) will be protected either with sod mats or with coir fabric as pictured above. The willow sprigs laid at water's edge will extend at least 3 feet into the streambank with no more than 1-foot of the tips protruding into the active channel. These sprigs will be set below the bankfull to level.